

CL

CoolLED LED Drivers



CoolLED

Preliminary Datasheet

CLS80 Switchable LED Drivers

Up to 80W

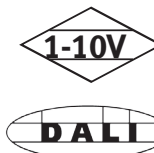
200/250/300/350mA

CoolLED drivers provide a high performance solution for powering high-brightness LEDs from a mains supply.

The power factor corrected, class I driver is non isolated, delivering up to 80W of power.

All CoolLED Drivers have a high efficiency design, which ensures cool operation and long life. The compact enclosure is available in integral (B) versions.

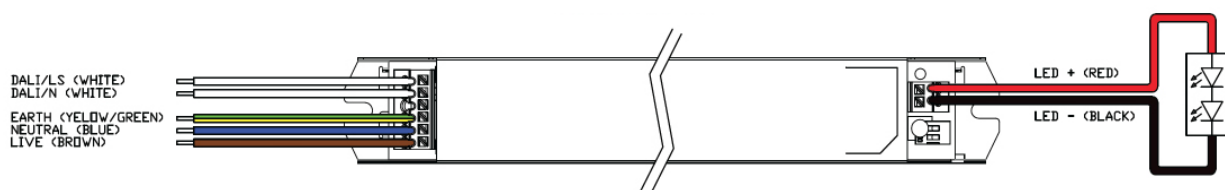
CoolLED Drivers are open and short-circuit protected and have a over temperature fold back. Corridor function built in on DALI version. 10% switch selectable dim mode.



Key Facts

- 220 - 240V Input voltage
- Touch Dim, DALI or Analogue
- Hazardous voltage output
- Power factor corrected (0.98)
- Constant current output
- Over temperature foldback
- Non isolated
- Push wire terminal blocks
- Up to 94% efficient
- Surge protection up to 4kV
- Low standby power (<0.4W)

Wiring diagram





*All information is subject to change at our discretion

Technical specification

Mains input voltage	220 - 240V ac RMS Nominal
Mains frequency	50 - 60Hz
Mains surge protection	4kV common-mode 2kV differential Class 4
Input-output isolation	Non isolated
Humidity	95% max non-condensing
Switch on time	<0.25 (0.6s DALI version)
Maximum output to earth voltage	420v RMS
Off load voltage	245V
Ambient temperature range	-25 °C to 50 °C
Maximum Tc temperature	80 °C
Switch on time	<0.25s (0.6s DALI standard)
Input power when output is off	<0.4W (DALI only)
Dimming range	100 - 1% (DALI only)
Terminal blocks	Push wire
Enclosure	Zintec steel
Wire size	0.5mm to 1.5mm ²

Variants

	Part number	Current	LED String Voltage	Output power range	Maximum off load voltage	Efficiency at full load
Non Dim	CLS80-350S2-240-B-NI	200mA 250mA 300mA 350mA (±5%)	100 - 240V	200mA: 20 - 48W 250mA: 25 - 60W 300mA: 30 - 72W 350mA: 35 - 84W	245V	>0.95
	CLS80-350S2D-240-B-NI	200mA 250mA 300mA 350mA (±5%)	100 - 240V	200mA: 20 - 48W 250mA: 25 - 60W 300mA: 30 - 72W 350mA: 35 - 84W	245V	>0.95
	CLS80-350S2A-240-B-NI	200mA 250mA 300mA 350mA (±5%)	100 - 240V	200mA: 20 - 48W 250mA: 25 - 60W 300mA: 30 - 72W 350mA: 35 - 84W	245V	>0.95

* Only DALI variant includes Touch Dim & Corridor function.

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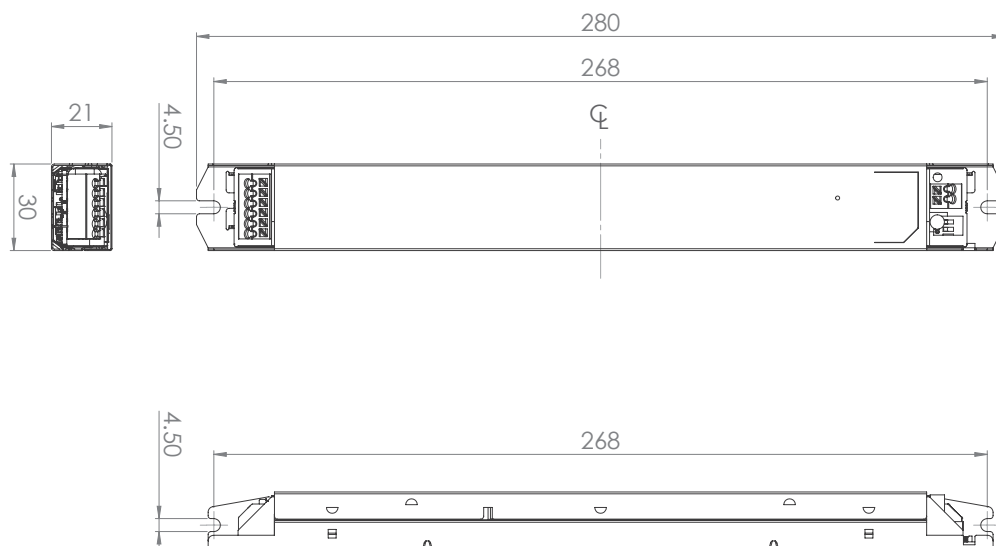
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Dimensions



Case Style	Dimensions	Weight	Box Quantity
Integral	280mm x 30mm x 21mm	240g	40

Tolerance: + or - 0.5mm

Compliance

Approval	Standards
ENEC	EN 61347-1:2008/A1:2011, EN 61347-1:2008/A2:2013, EN 61347-1:2008, EN 61347-2-13:2014, EN62384:2006/A1:2009, EN62384:2006

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